GOLIGORSKIY, S.D.; AMESTIADE, N.Kh.; KUKIN, N.N., professor, direktor.

Empyema of the stump of the ureter. Klin.med. 31 no.3:87 Mr '53.
(MLRA 5:5)

1. Fakul'tetsknya khirurgicheskaya klinika Kishinevakogo meditsinakogo inatituta na baze Respublikanakoy klinicheskoy bol'nitay.
(Ureters -- Diseases) (Empyema)

GOLIGORSKIY, S.D. (Kishinev); TSEBYRNE, K.A. (Kishinev); SHOYKEET, R.N. (Kishinev)

Treatment of acuts nonspecific cystitis with presacral novocainepenicilin blocks. Klin.med. 32 no.1:24 Ja 154. (MLRA 7:4)

1. Iz fakul tetekoy khirurgicheskoy kliniki (direktor - professor N.N.Kukin) Kishinevskogo meditsinakogc instituta i Besgublikanskoy klinicheskoy bolinitsy.

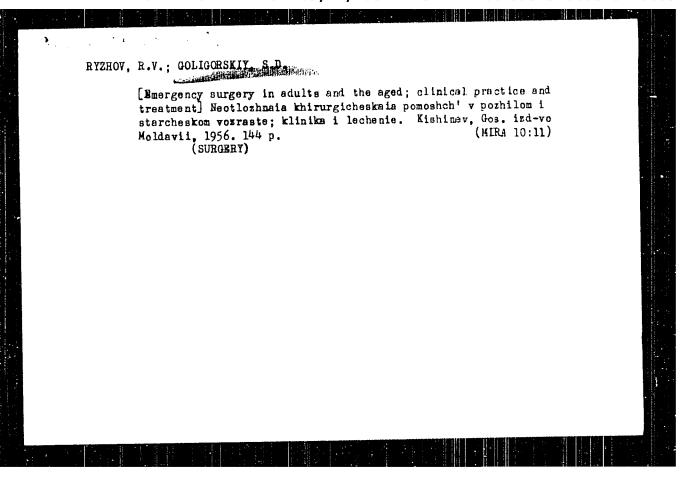
(Bladder--Inflammatica) (Penncillin) (Novocalue)

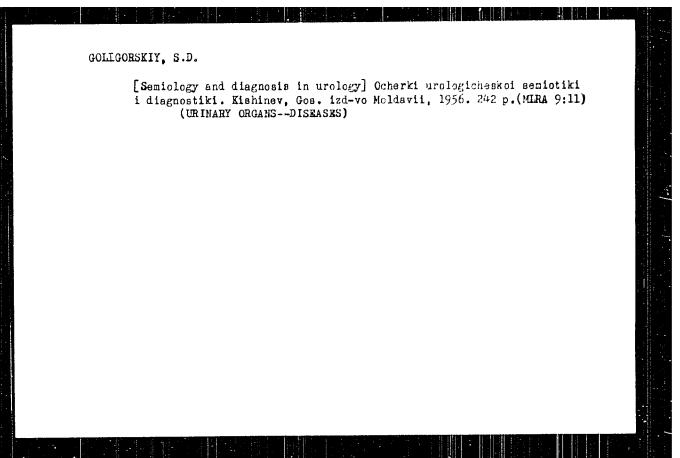
GOLIGORSKIY, S.D., kandidat meditsinskikh nauk; BAEDIYER, L.G.

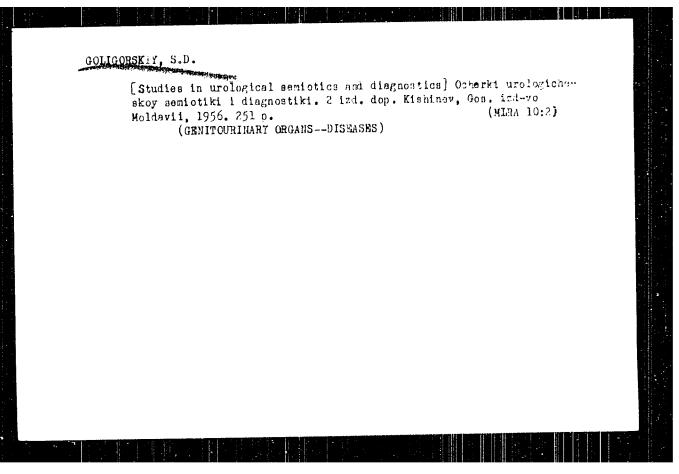
Michelson's vesico-signoid anastomosis in total epispadias.
Urologiia no.2:78-79 Ap-Je '55. (Mish 8:10)

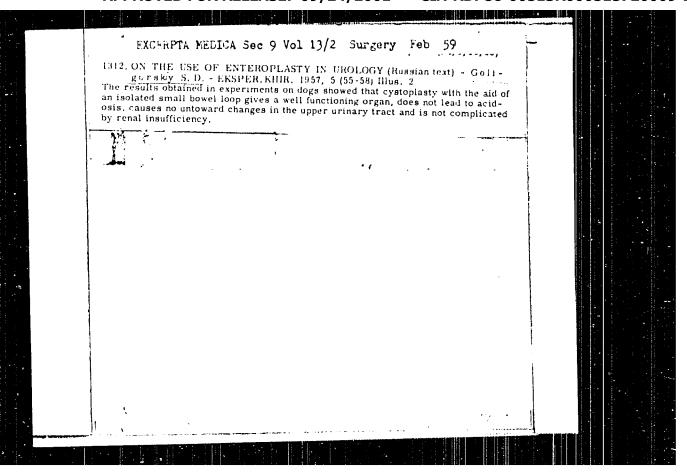
1. Iz gespital'noy khirurgicheskoy kliniki (zav.--prof.
P.V.Ryzhov) Kishinovskogo meditsinskogo instituta na bane
Raspublikanskov klinicheskov bol'nitsv (glavnyy vrach
M.G.Zagurskikh)

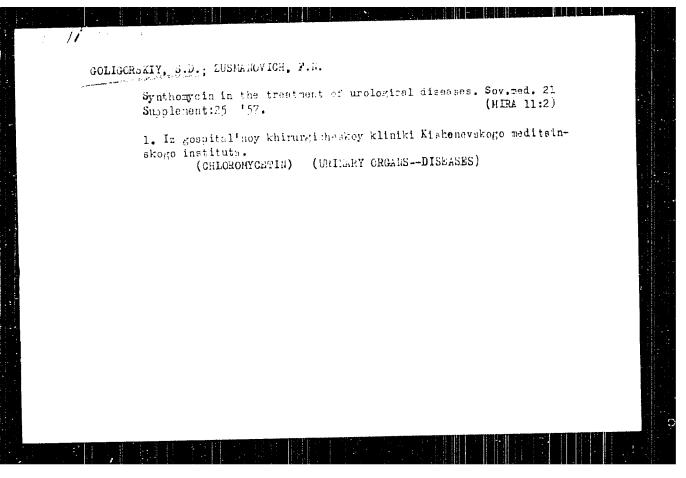
(EPISPADIAS, surgery,
vesico-signoid anastomosis)

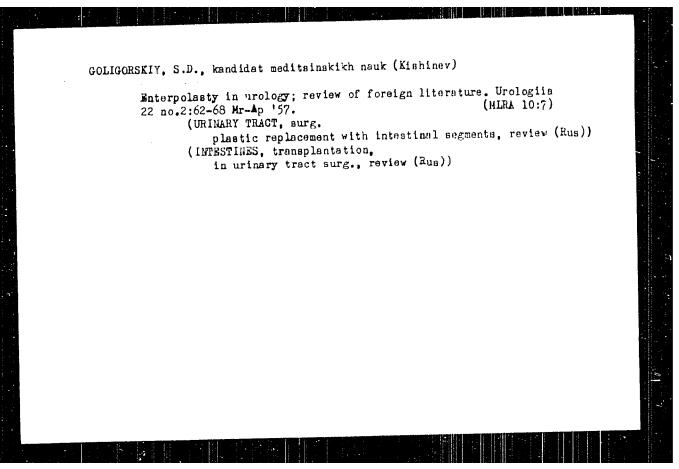


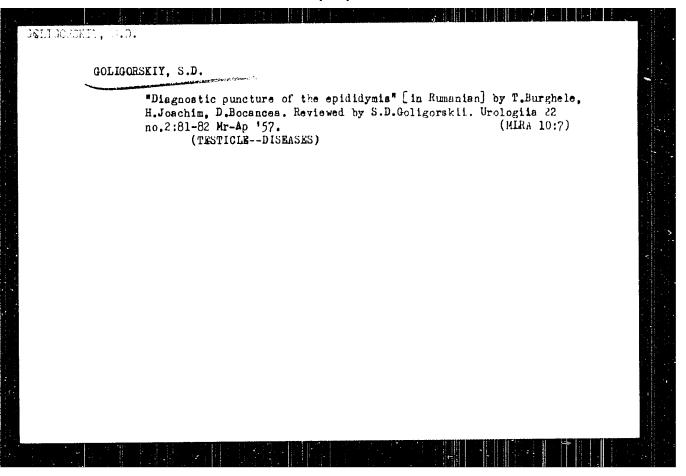


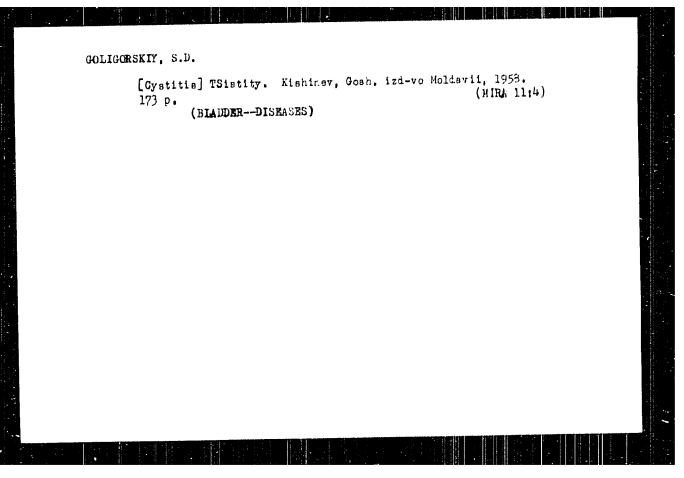


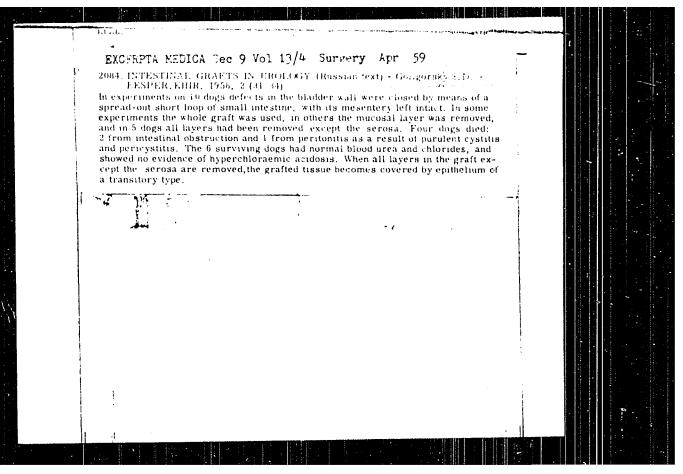


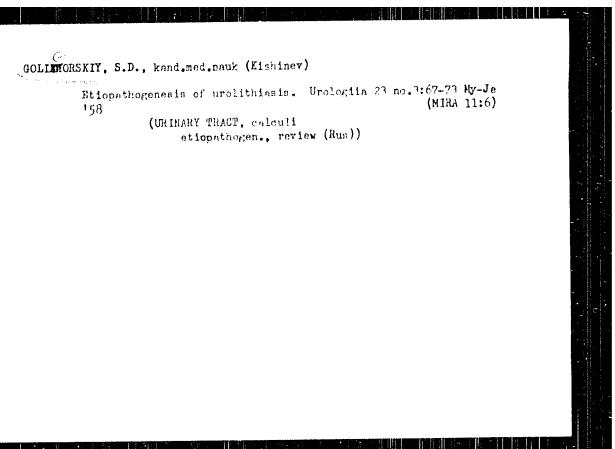


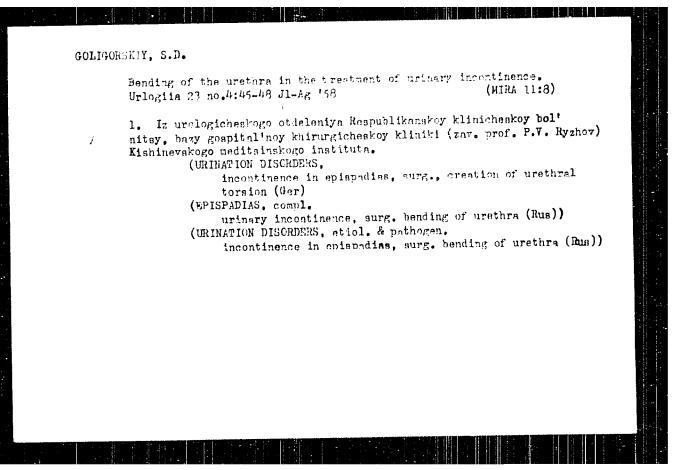


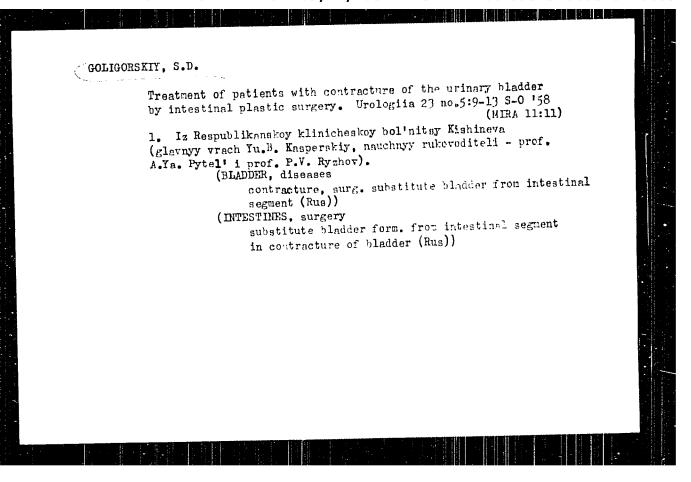


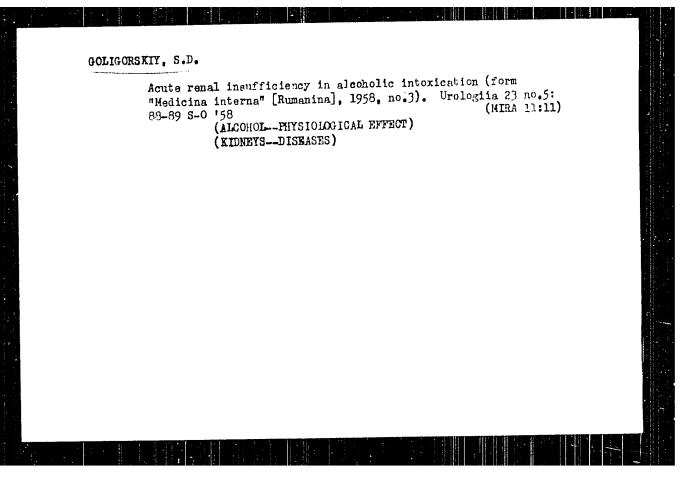


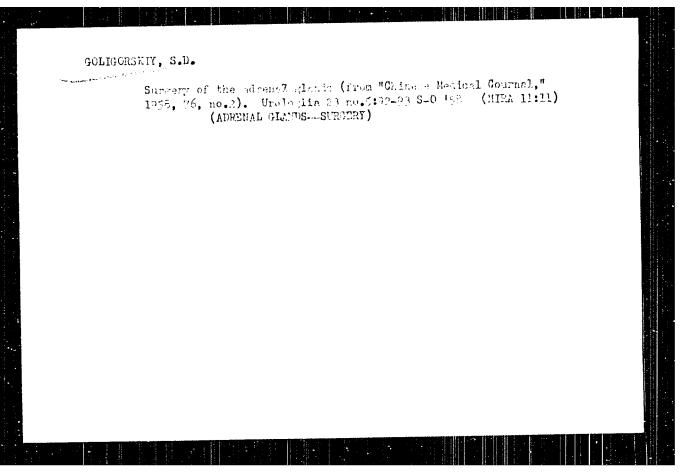


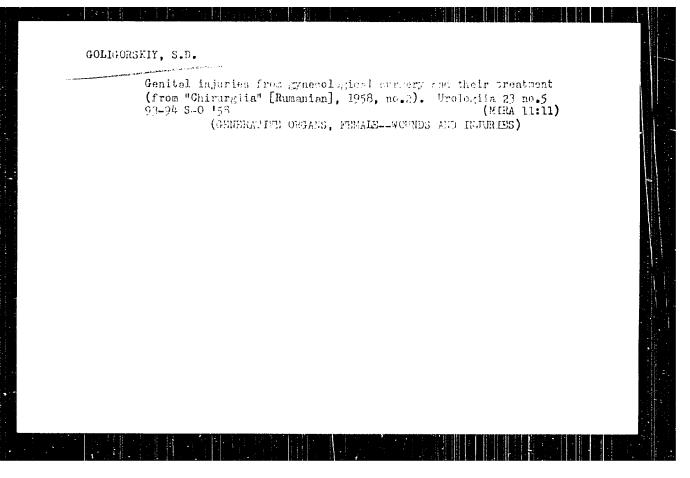


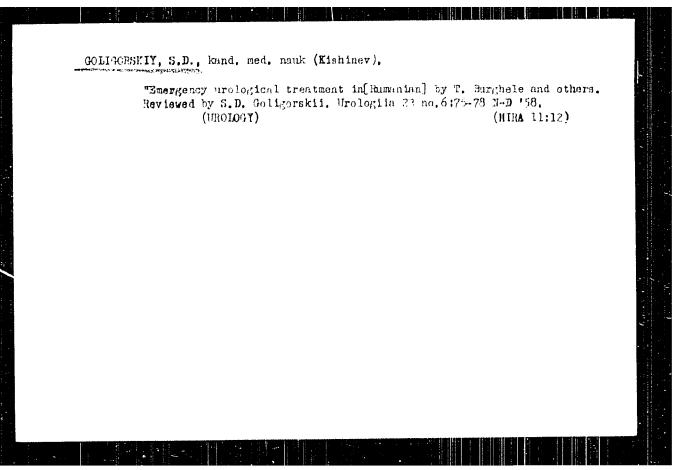










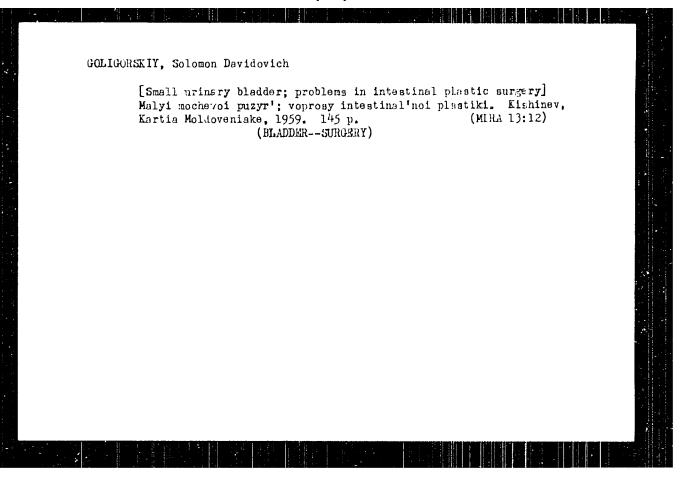


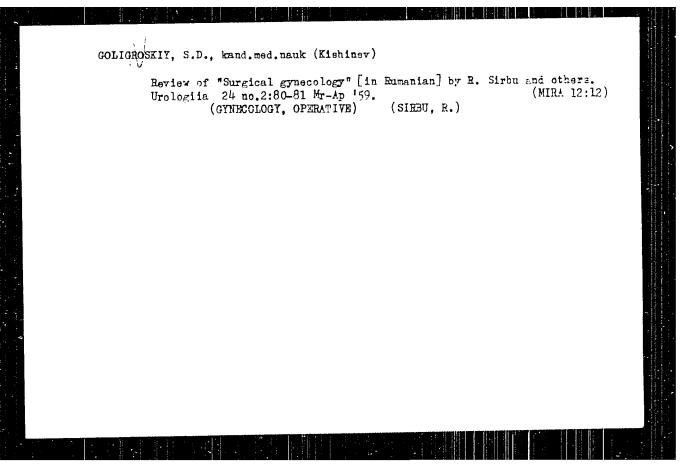
SOSONMIN, Z.S., OOLIGORSKIY, S.D.

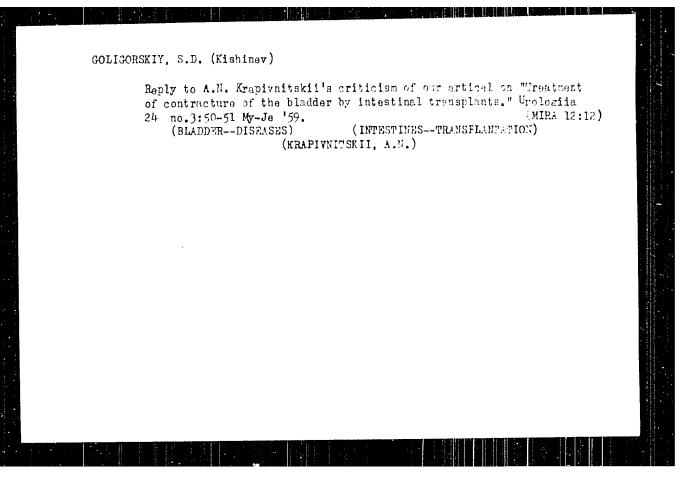
In memory of Professor S.M. Rubashov, honored scientist.

Khirurgiia 34 no.4:155-156 Ap '58 (HIRA 11:?)

(RUBASHOV, SAVELII MIROHOVICH, 1883-195?)





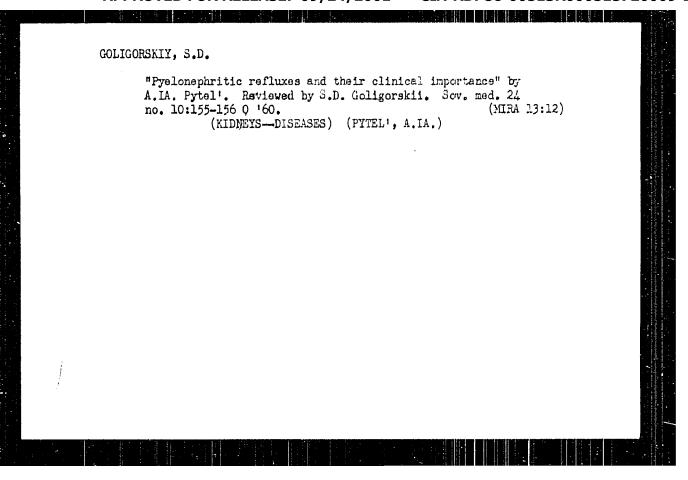


RYZHOV.P.V.; GOLIGORSKIY, S.D.; SHOYMER, A., red.: TEL'PIS, V., tekhn .

red.

[Mistakes in preoperational diagnosis; problems in surgical tactics] Oshibki predoperatsionnego diagnosis; voprosy khirurgicheskoi taktiki. Kishinev, Ocs. 1zd-vo "Kartin Maldovenisske," 1960. 181 p. (HIRA 14:5)

(ASDOMES--SECERT) (URLUMET ORGANS--DISTASES)



GOLIGORSKIY, S.D.; KATSYF, A.M.

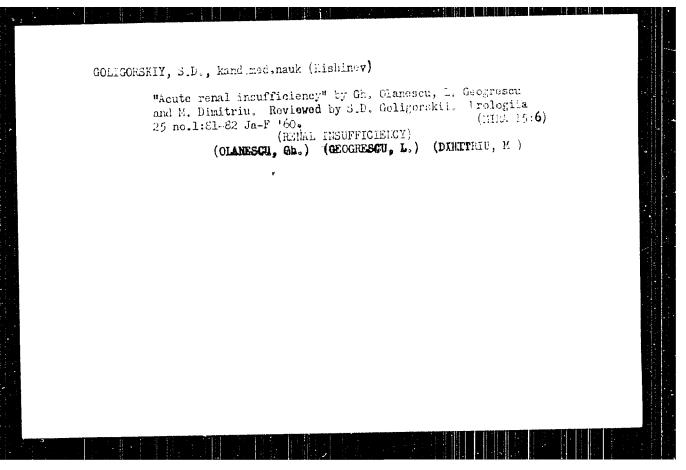
Organ-preserving operations in disorders of the patency of the pyeloureteral segment. Urologiia 26 no.1:29-37 '61. (MISA 14:3)

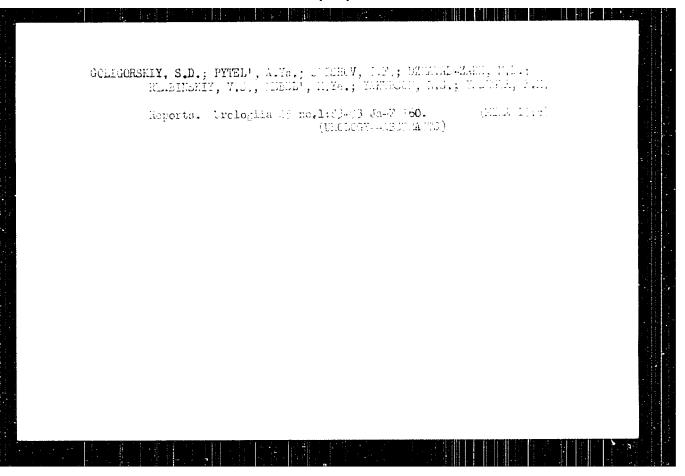
(KIDNEYS-SURGERI)

FYTEL', Anton Yakovlevich, prof.; SCLICCHSMIY, Solemon Savidovich, kand.med.nauk; VORCHISOV, V.T., red; ZUYEVA, E.K., tekhn.red.

[Pyelonephritis] Fielonefrit. Moskva, Nedgiz, 19el. 200 p. (MIRA 15:7)

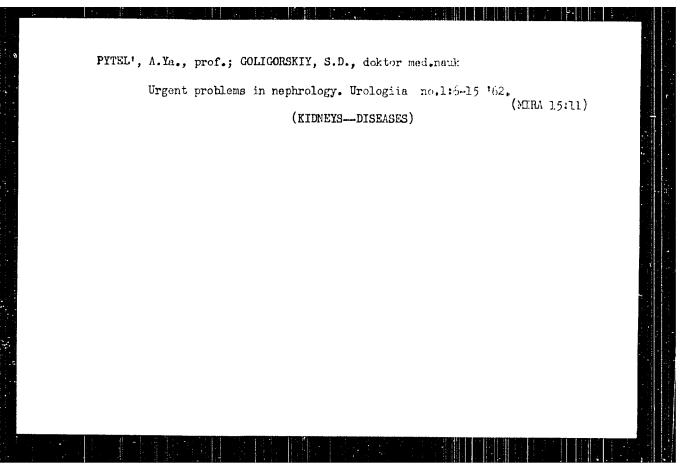
(KILMHYS-DISEASES)

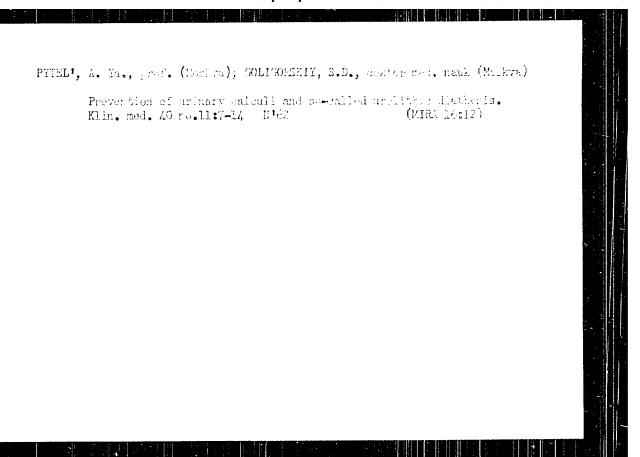


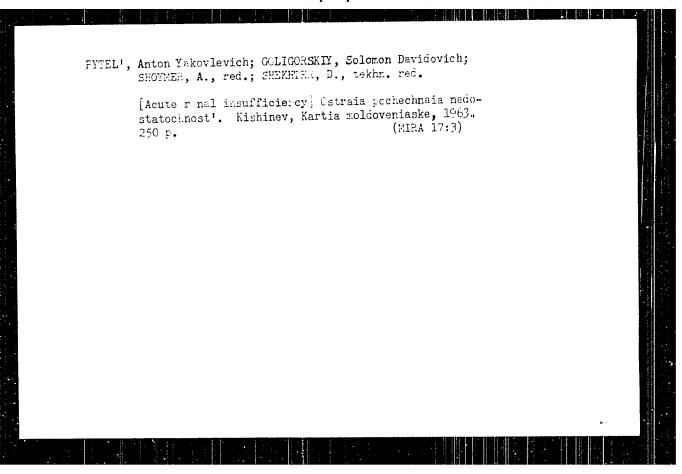


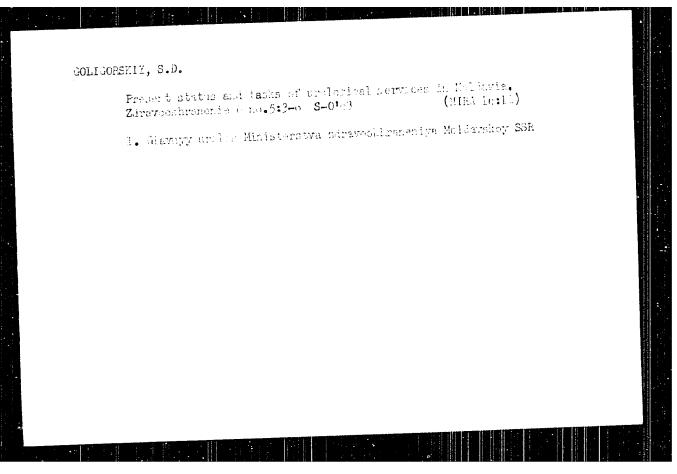
FYTEL', A.Ya., prof.; GOLIGORSKIY, S.D.; doktor med. nauk; DZHAVAD-EADE, M.D., kand. med. nauk; LOFATKIM, M.A., doktor med. nauk; GOL'DIM, G.I.; red.; FOCOSKIMA, M.V., tekhn. red.

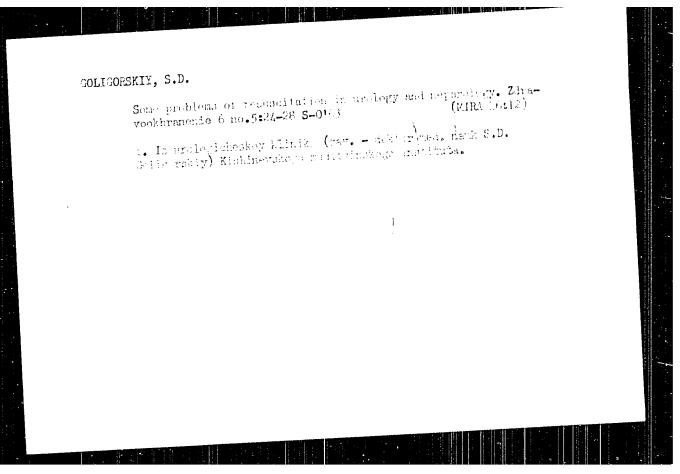
[Artificial Lidney and its clinical use] lskusstvernais rochka i ee klinicheskoe primenenie. Fod red. i s predisl. A.IA.Pytelia. hocky:, Medgis 1861. 281 p. (MIRA 15:10) (KIDNEYS, ARTIFICIAL)







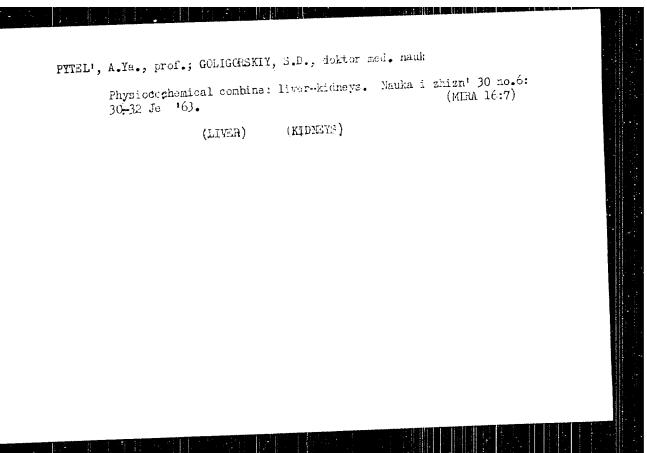


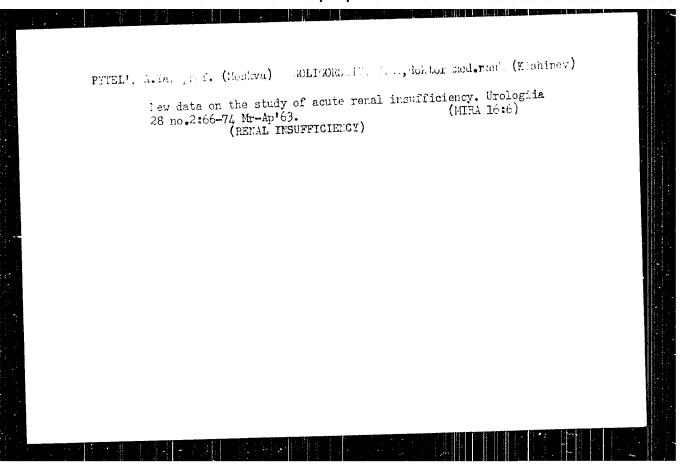


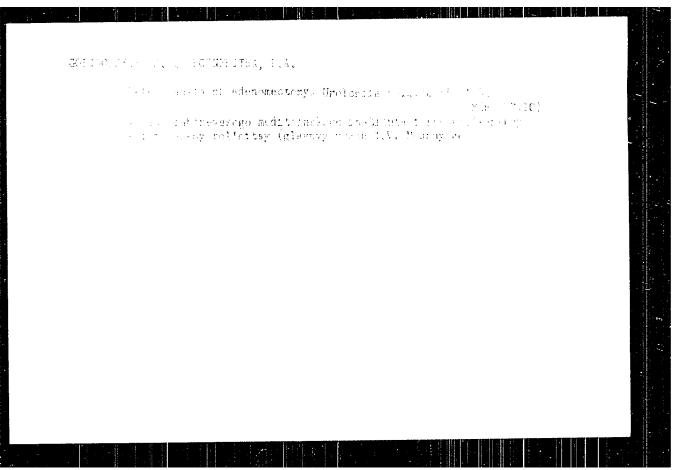
PYTEL', A.Ya.; GOLIGORSKIY, S.D.; VASIL'YEV,V.V.; KUCHERSKIY,I.M.; MISEMBAUM, L.I.; CHEBANYUK, G.M.; BOGDAMOVICH, I.A.; PLISAT, S.O.; SURIS.A.S.

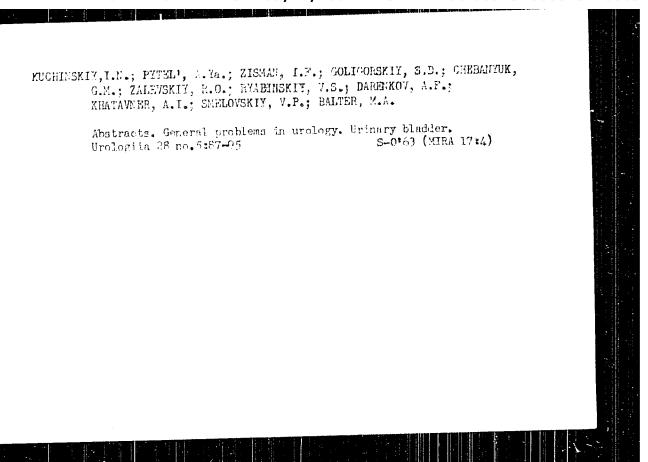
Achievements of contemporary nephrology. Kidneys and ureters.

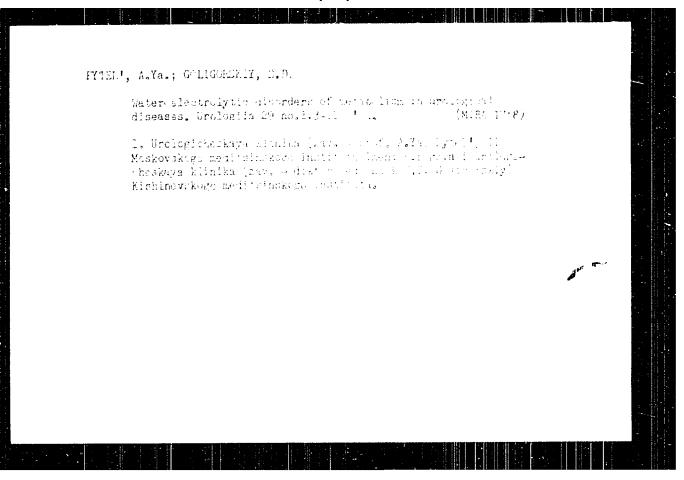
Urinary bladder. Urologiia 28 no.3:82-92 '63 (MIRA 17:2)

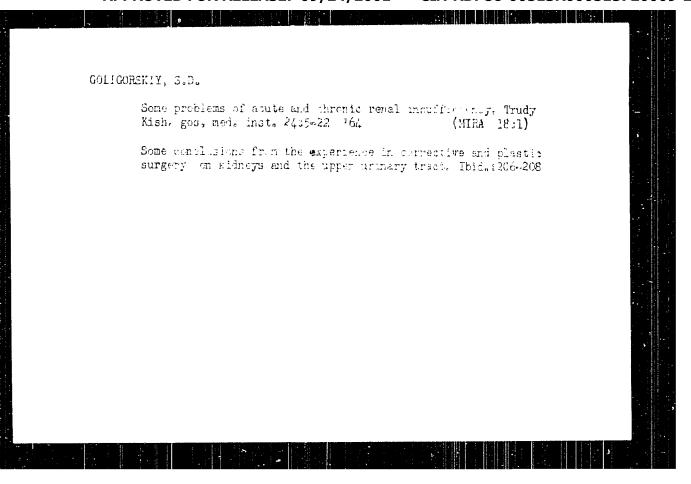


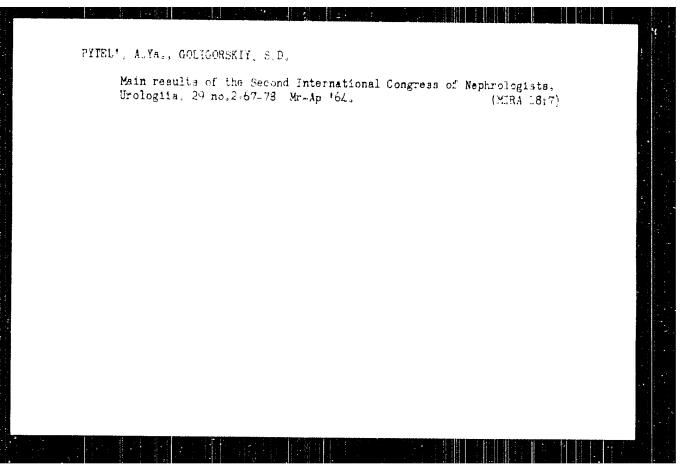






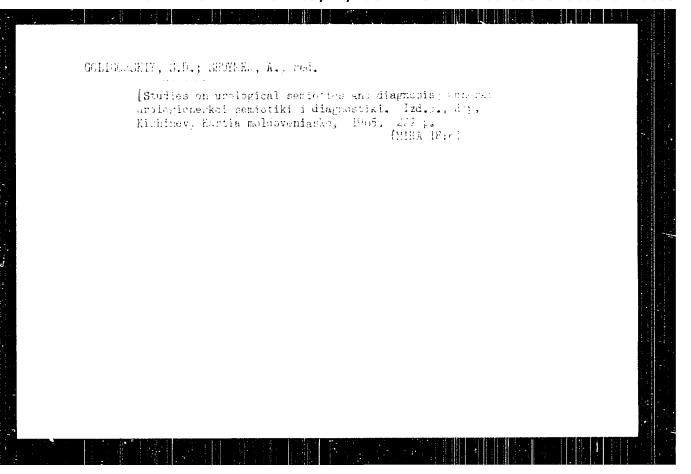


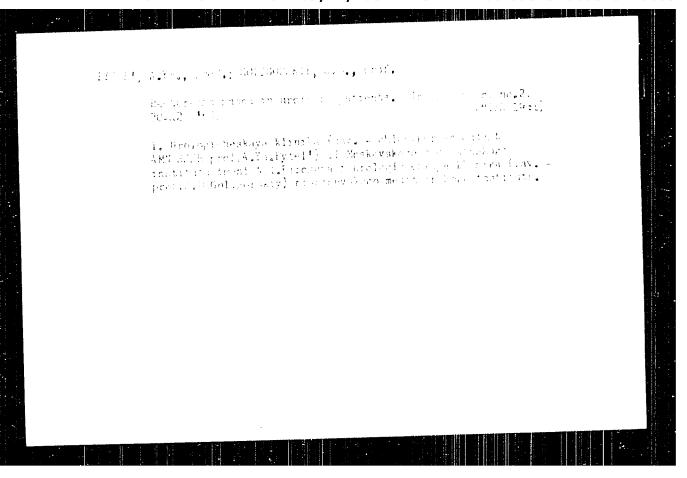


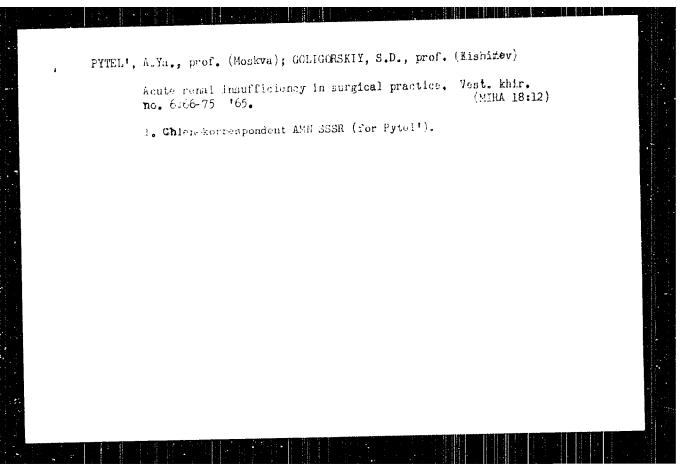


GOLIGORSKIY, 3.D., prof. (Kishinev); KATSYF, A.M., kand. med. nauk
(Kithinev)

Review of M.D. Dzhavad-zade's monograph "Polycystosis of the kidneys; clinical aspects and treatment." Vest. khir, 93 no.11:
140-142 N '64. (MIRA 18:6)







TYAFKIR, K.F. Prinimali uchastiye: GCLIK, A.I., inch.; KHARCHERKC, S.I., inch.; FILIFFOVA, T.S., irch.; LOUGSERG, T.I., red.ind-va; IVAROVA. A.S., tekhn. red.

[Interpretation of gravity anomalies caused by finite geologic structures along the strike] Interpretation and vitationnyth anomalii, obudovlennyth koncennymi po productuals geologicheskin obudektami. Mockva, Goo. naucino-tekhn. inc-vo livery powel.

i okhrane nedr. Ft.I. 1961. 78 p. (NIRA L/:11)

(Gravity prospecting)

TYAPKIN, K.F.; GOLIK, A.I.; KHALCHENKO, S.P.

Interpretation of gravity anomalies under conditions of block structure of the objects being studied. Geofiz. sbor. no.4:80-100 '63. (MIRA 16:9)

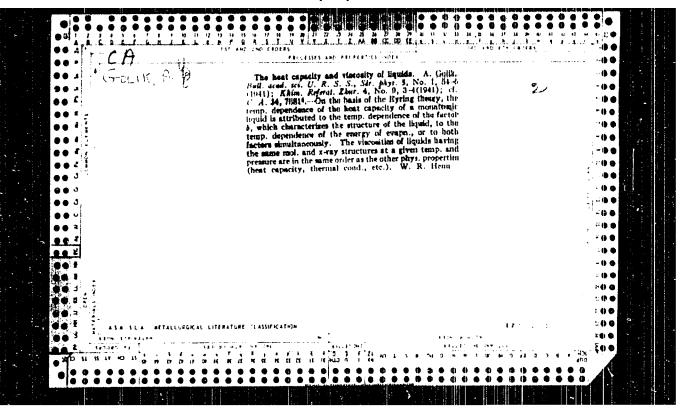
1. Dnepropetrovskiy gornyy institut imeni Artera.

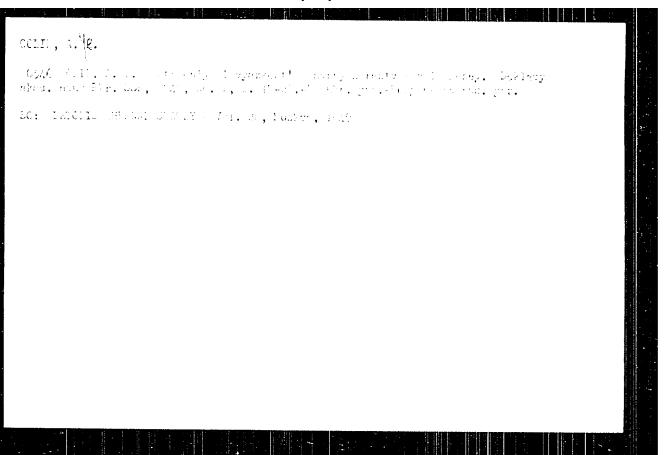
GOLIKOV, A.N., doktor veterin. nauk; SHITOV, S.T., kand. veterin. nauk

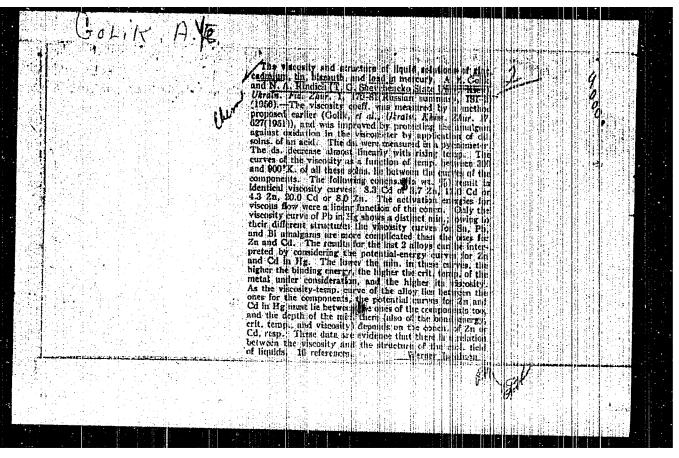
Novocaine block of craniocervical sympathetic ganglion in
treating eye diseases. Veterinariia 40 no.10:42-44 0'65.

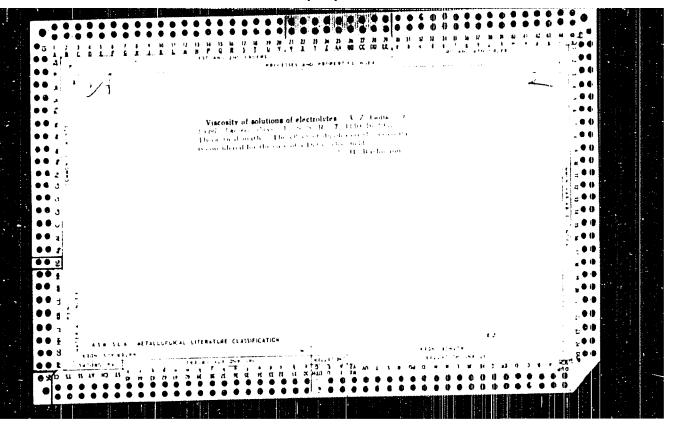
(MIRA 17:5)

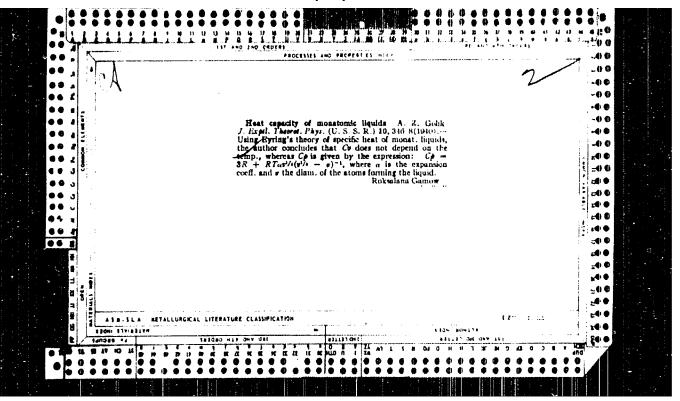
1. Moskovskaya veterinarnaya akademiya.

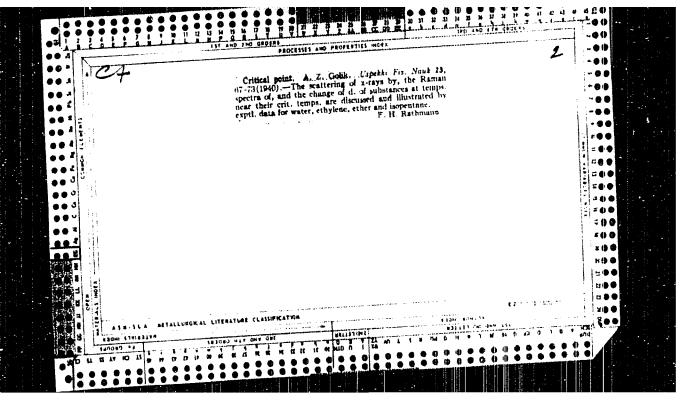


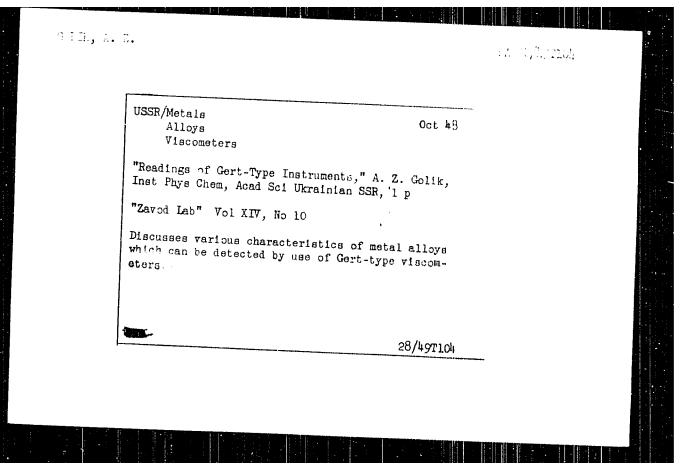












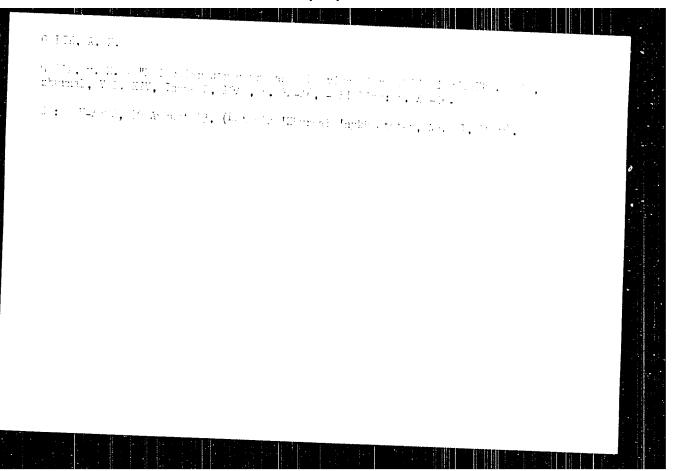
Structure and viscosity of binary solutions and mixtures.

Dop. AN "RSR no.2:17-23 "49. (MLRA 9:9)

1. Institut fizichnoi khimii im. L.V. Fisarzhevs kogo AN URSR.

Predstaviv diysmiy chien AN URSR O.I. Brods kiy.

(Viscosity) (Solution (Chemistry))



Imy - Viscosity The Coefficient of Viscosity in Substances, "A. Z. Golik, S. D. Inst of Physicochem imeni I. V. Y, Acad Sci, Ukrainian SCE, Kiev, im" Vol XXIII, No l I results can be achieved by snalyzing of viscosity of liquids which have ecular structure and type of bond icles. Conducted experiments on 18/19730 ry - Viscosity (Contd) paradichlorobenzene, paradibromo-nthalene and anthracene. Gives formulas, tables, and graphs of results. Submitted 25 Mar 18.	GOLIK, A. Z.	영화 당 하 C	: 145	5 + 0 C		PA 48/49T30	c 1	
	h8/h9T30	- Viscosity (Contd) Jan radichlorobenzene, paradibromo-balene and anthracene. Gives ormulas, tables, and graphs of sults. Submitted 23 Mar 48.		achieved by liguids whice and type of d experiments	Khim"	tudy of the Coefficient of Viscosit or Physical A. Z. Golik, S. kowich, Inst of Physicochem iment I rzhevskiy, Acad Sci, Ukrainian SER,	- Viscosity Jan - Bonds	

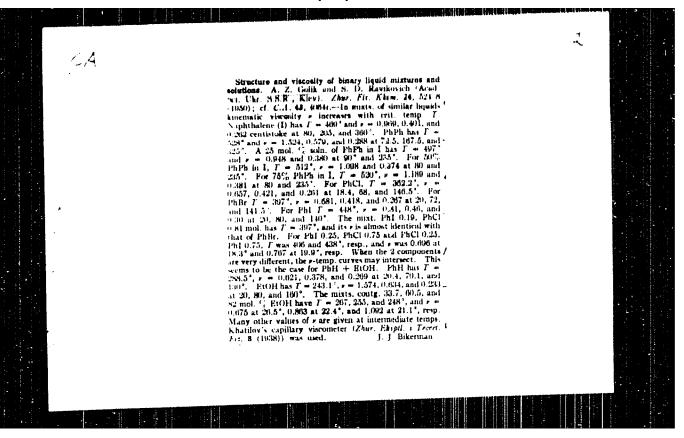
"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515720009-2

Structure and viscosity of binary solutions and mixtures. A 7 Godik and 8 D Ravikovich (Inst. Phys. Chem. A and Sci. Ukr. S.S.R.). Deposeds Abid. Nauk. Phys. Chem. N.S.R. 1980, 101 (The Taniana); cf. C. 4. 44, 8721d. A relation is established between the viscosity and the crit. temp. Is of mixts, of org. compels, of the same type. In mixts, of Callia and Callia, both and the increase with the concin. of Callia. Selected exptl. data of the and of a ftemp. In mixts, of Callia. Selected exptl. data of the and of a ftemp. In parentheses) in stokes, are: pure Callia, the 234° and (197) 0.0013, (180°) 0.0013, (180°) 0.00182; Callia 40° Callia, the 236° and (197) 0.00340, (198) 0.00340, (198), 0.00335; Callia 40° Callia, the 274° and 0.00340, (1970, 0.00349, pure Callia, the 230°, a (1925, 0.003097, (145,0) 0.00349, pure Callia, the 230°, a (1925, 0.003097, (145,0) 0.00349, pure Callia, the 230°, a (1925, 0.003097, (145,0) 0.00349, pure Callia, the 230°, a (1925, 0.003097, (145,0) 0.00349.

01

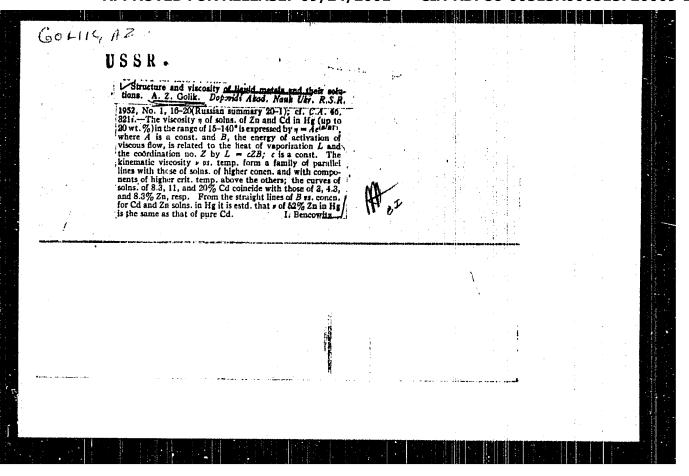
C₀H₁₆, $L = 274^{\circ}$, r (14-0) 0.00650, (75-0) 0.00397, (145.0) 0.00249, pure C₄H₁₆, $L = 286^{\circ}$, r (32.5) 0.00705, (75.0) 0.00249, pure C₄H₁₆, $L = 286^{\circ}$, r (32.5) 0.00705, (75.0) 0.00321, (150.0) 0.00322. The compan C₄H₁₆ + 49% C₄H₁₆ has the same L as pure C₇H₁₆ correspondingly, r is the same for the C₄H₁₆ + C₄H₁₆ mixt, and for pure C₇H₁₆ over the whole temp, range. For all compans, log r is a linear function of (1/T), and the slope (activation energy) is the same for all compans, and for the pure components as well. Selected exptl. data for mixts of MeOH and BuOH are: pure MeOH, $L = 212^{\circ}$, r (20) 0.00776, (80) 0.00387, (100) 0.0330; MeOH + 3.3 $^{\circ}$, BuOH, L = 236, r (18.5) 0.00474, (71.4) 0.00528, (10.4) 0.00335; MeOH + 55 $^{\circ}$, BuOH, L = 236, r (24.0) 0.01430, (04.5) 0.00886, (102.0) 0.00876; MeOH + 66 $^{\circ}$, BuOH, L = 236, r (23.0) 0.01689, (82.0) 0.00673, (118.0) 0.00342; MeOH + 83 $^{\circ}$, BuOH, L = 233, r (31.6) 0.02718, (60.0) 0.0164, (113.4) 0.00550; BuOH, L = 233, r (31.6) 0.02718, (60.0) 0.0164, (113.4) 0.00550;

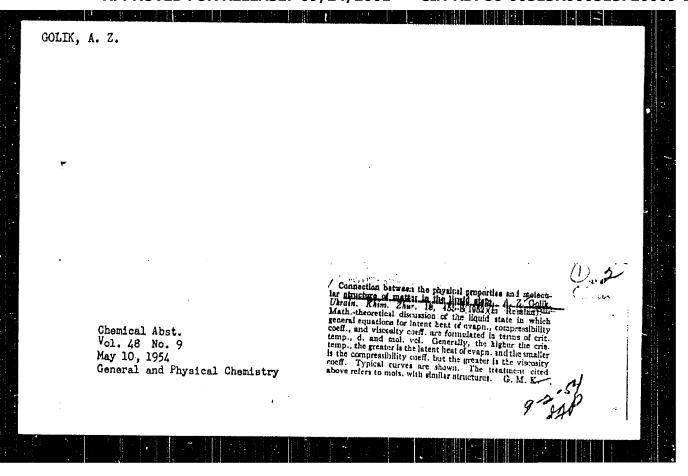


GOLIK, A.Z.; RAVIKOVICH, S.D.; CRISHCHENKO, A.V.

Vincesity and nelecular structure of solutions. Ulcr.khim.shur.17
ne.5:627-657 '51. (Mima 9:9)

1. Institut fizicheskey khimii AN USSR.
(Solution (Chemistry)) (Viscosity)





GCLIE, A. Z.

USSR/Physics - Jolid State Physics

How 53

"Conference on the Liquid State of Matter, Held 22-30 May 1953 at Fiew by the Academy of Sciences, Ukrainian SR, and Fiev State University in T. C. Shevchenko," S. D. Ravikovich, G. I. Foslichina and J. F. Skryshevskiy

Usp Fiz Nauk, Vol 51, No 3, rp 393-05

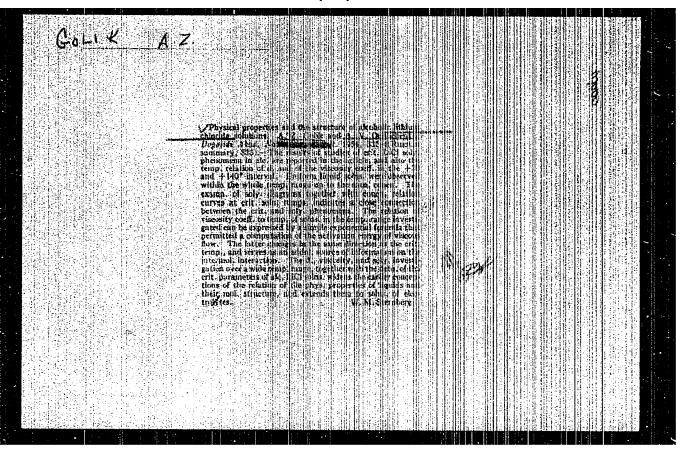
Summarize reports by the following: V. I. Danilov, on scattering of x-rsys in liquids; A. F. Skryshevskiy, on x-ray study of solns of ECH, NaOH, LiOB, LiOB, and H₂SO₄; Te. A. Forsy-Koshits, on integral analysis of intensity curves; F. V. Deragin, Te. G. Chvidkovskiy, C. Ta. Jamoylov et al. on x-ray studies of liquid structure; A. Z. Golik, on characteristics of rolecular structure of liquids; I. V. Badchenko, on modeling of liquids; F. K. Shestakovich, on new liquid rodels and influence of central and dipole forces on close ordering; A. Z. Colik and his associates S. D. Bavirovich, A. V. Orishchenko, V. I. Solombo, and E. A. Fyndich, on viscosity and density of matter in the liquid state; V. I. Chulanovskiy and D. J. Karenetskayn, on the influence of molecules' size and the intermolecular intensity on viscosity coeff; A. F. Frynza, on thermo-diffusion in binary systems; S. S. Frazovskiy, resence of grouping of identical atoms; A. R. Fegel', on relation between electrical properties and structure of liquids; P. F. Yuka, on light-dispersion method for studying liquids' structure.

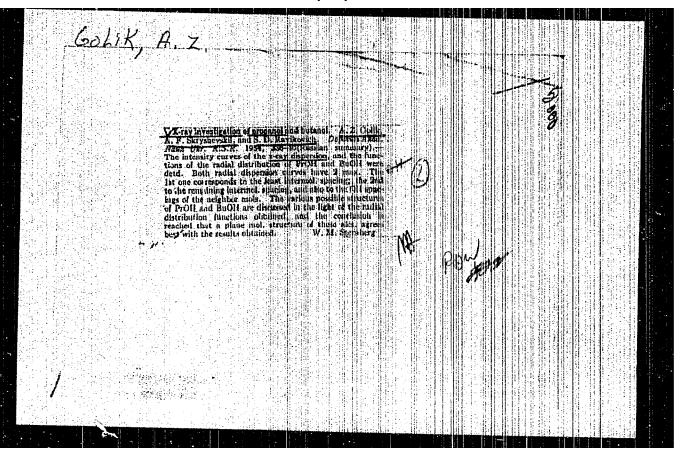
GOLIK, A.Z., doktor fiziko-matematicheskikh nauk, otvetstvennyy redaktor;
RAYIKOVICH, S.D., kandidat fiziko-matematicheskikh nauk, redaktor;
ROSHCHIMA, G.P., kandidat fiziko-matematicheskikh nauk, redaktor;
SKRYSHEVSKIY, A.F., kandidat fiziko-matematicheskikh nauk, redaktor.

[Structure and physical properties of matter in liquii state;
papers of a conference held in Kiev, May 28-30, 1953] Stroenie i
fizicheskie svoistva veshchestva v zhidkom sostolanii; materialy
soveshchaniia, "ostoiavshegosia v Kieve 29-30 main 1959; [Kiev]
Izd-vo Kievskogo gos. univ. im. T.G.Shevchenko, 1954, 203 p.

(MIRA 9:3)

1. Akademiya nauk URSR, Kiyev
(Liquids)





GOLIK, O.Z.; ORISHCHENKO, A.V.; ARTEMCHENKO, O.G.

"Negative" viscosity effect of nonaqueous solutions of potassium iodide.
Dep.AN URSR no.6:453-456 '54. (MIRA 9:9)

1. Institut finchmei khimii imeni L.V.Pisarzhevs'koge AN URSR. Predstaviv diysniy chlen AN URSR O.I.Breds'kly.

(Petassium iedide)

USSR/ Hysical Chamistry - Liquits and Acceptous Bodies. Gases. 8-6

Abs Jour : Referet Zhur - Khimiya, No 3, 1957, 7377

: Golik, A.Z. Skrishyevskiy, A.F., and Ravikovich, S.I. : Academy of Sciences Userinian 200 Author

Inst

Title : Radiographic Investigation of Methyl Alcohol

Orig Pub : Dopovidi All UESE, 1954, No 6, 457-459 (pablished in

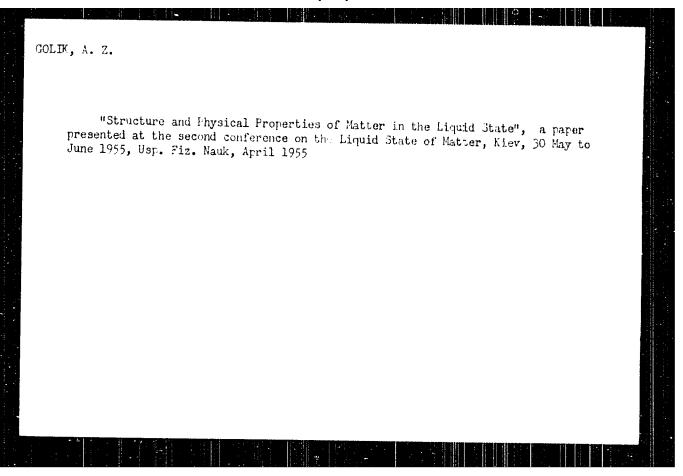
Ukrainian with a Russian summary)

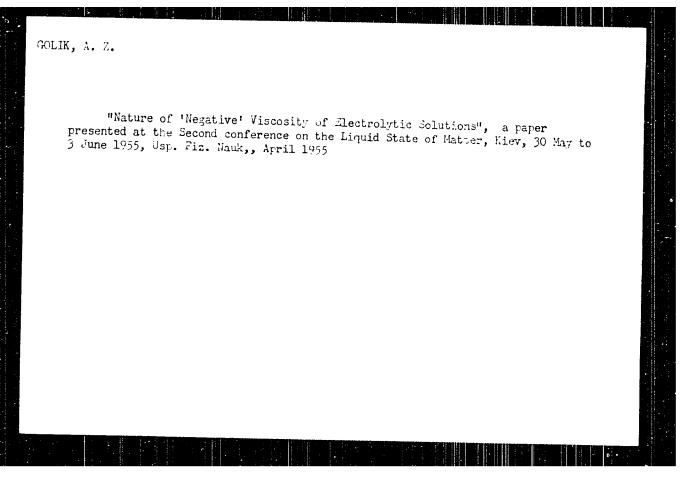
: The X-ray intensity curve and radial distribution func-Abstract

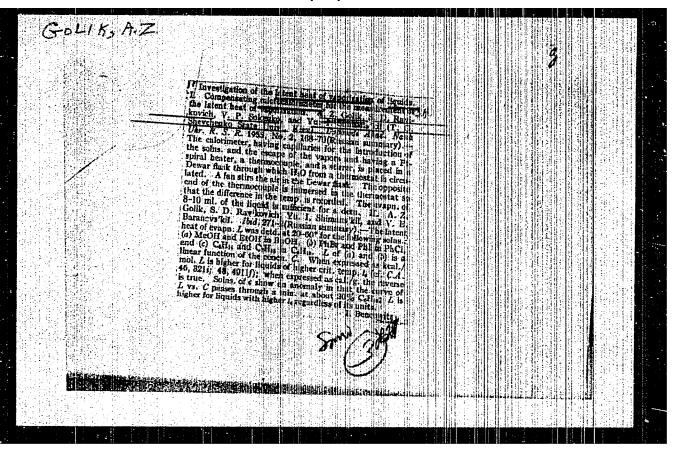
tion for methyl alcohol have been calculated. The radial distribution curve shows two peaks. The first peak corresponds to the intramolecular distance and the second is determined by the sum of the distances to the OH-groups neighbouring molecules. The first peak in the radial distribution curve was isolated from the large-distance side; this does not agree with the radial distribution curve which previously determined (G.G. Harwey, J. Chem. Phys.,

1938, 6, 3, 111).

Card 1/1 - 58 -







Burk, A. C.

USSR: Attric and Molecular Physics - Statistical Physics, Thermodynamics, D-3

Aust J. Chart Referat Zhur - Fizika, No 12, 1956, 34364

Author: Gills. O. C., Ravikovich, S. D., Shimana'kiy, Yu. I., Baranovs'kiy, V. Ye.

Institution: Institute of Physical Chemistry, Klev State University

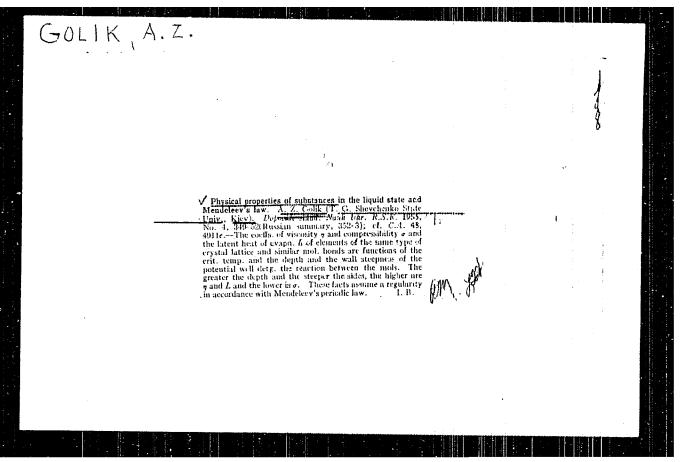
Title: Live-igation of Latent Heat of Evaporation of Liquids. II. Investigation of Physical Solutions

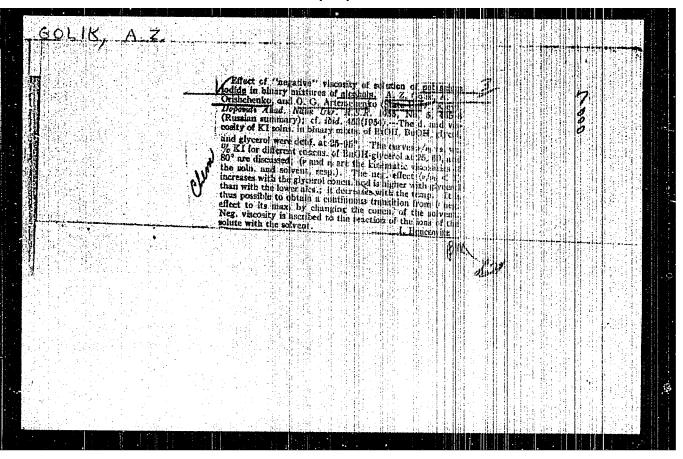
Original Periodical: D.povidi AN URDR, 1985, No 3, 271-273; Ukrairian; Russian resumé

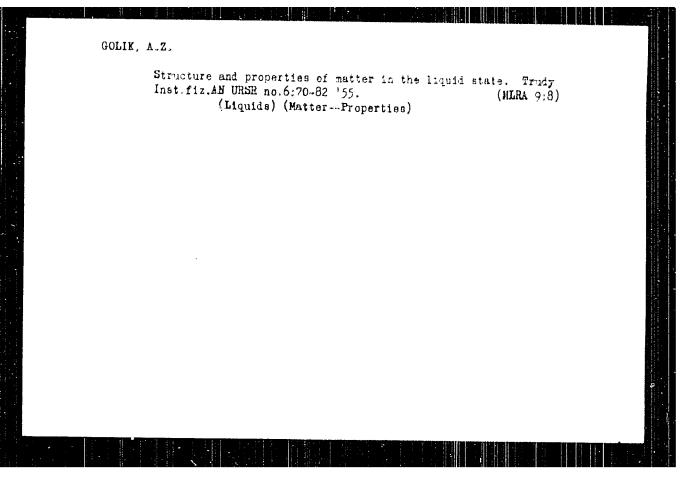
Abstract: It is shows that the temperature-dependence curves of latent heats of evaporation of solutions of methyl and ethyl alcohols in butyl alcohol, and of (wire-convents and chlorobenishe in prophenishe, lie between the corresponding curves of the complements and range in an order determined by the critical temperatures of the liquids. The concentration dependence of the heat of evaporation of solutions of all that and hall id derivatives of terrene is linear, and a pronounced minimum is disclosed for the C_0H_{10} and C_0H_{10} at C_0H_{13} solutions.

1 of 1

- 1 -







WSSR/Physical Chemistry - Liquids and Amorphous Substances.

B-6

Abs Jour

: Referat Zhur - Khimiya, No 6, 25 March 1957, 18390

Author

Inst

: Golik, A.Z. : RYKKhim, 1956, 18694

Title

: About Certain Problems Referring to the Theory of Liquid

State.

Orig Pub

: Nauk. zap. Kiiva'k un-t, 1955, 13, No 7, 145-152

Abstract

: Connection between the structure of a liquid and its properties is qualitatively analyzed. The attention is called to the fact that substances having the same lattice in solid state and the same intermolecular interaction are characterized by a family of similar curves upon the diagrams property-temperature. This is tied up with the fact that the energy of molecules of a liquid, in first approximation, is determined by the close order: the reciprocal action between different molecules and their

Card 1/2

- 130 -

CIA-RDP86-00513R000515720009-2" APPROVED FOR RELEASE: 09/24/2001

SALTERATE

USSR/Physical Chemistry - Liquids and Amorphous Boiles. Gases, B- \acute{o}

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60900

Author: Golik A. Z.

Institution: None

Title: Molecular Structure and Viscosity of Liquid Metals and Alloys

Original

Periodical: Nauk. 2ap. Klivstk. un-t. 1955, 14. No 8, 159-109

Abstract: As a result of considerations of the question concerning the relationship between molecular structure of liquid metals and their physical properties the author reaches the conclusion that the conefficient of miscosity of liquid metals and metal alloys depends on the molecular structure of the given liquid. For the study of this correlation it is appropriate to classify liquid metals as well as other liquids on the basis of matrical molecular structure. Within a given group of liquids of the suscicity coefficient is located taggier with increasing value at the critical temperature

Card 1/2

USSR/Physical Chemistry - Liquids and Amorphous Bedies. Gases, B-6

Abst Journal: Referat Zhur - Khimiya, No 19, 1986, 60906

Abstract: of a given substance. The temperature dependence curve of the viscosity of a molecular miscible solution the components of which have the same molecular structure is located online the curves of the components and its location is higher with increasing bolling temperature (critical temperature) of the solution. If the critical same the viscosity coefficients of such substances will be equal at any temperature. Thus coincidence of temperature dependence curves of viscosity coefficient coefficient coefficient coefficient and index of identical molecular structure of the liquids.

GOLIK, A.Z.

USER/Chemistry - Physical chemistry

Card 1/2

Pub. 116 - 7/25

Authors

Golik, A. Z., and Ravikovich, S. D.

Title

Viscosity and structure of normal paraffins and their solutions in

liquid state

Periodical :

Ukr. khim. zhur, 21/1, 39-47, 1955

Abstract

The viscosity coefficient of pure paraffins and their binary and ternary solutions was investigated in connection with the molecular structure. It was found that paraffin molecules do not posses dipole moments, consequently, the reaction between them is determined by weak residual dispersion forces. Normal paraffins were observed to form a group characterized by an analogous function of atom orientation and identical type of intermolecular bond. The activation energy of the viscous flow of paraffin solutions was established to be a square

Institution :

Acad. of Sc. Ukr-SSR, The L.V. Pisarzhevskiy Enst. of Phys. Chem.

Submitted

January 29, 1954

Periodical Ukr. khim. zhur. 21/1, 39-47, 1955

Card 2/2 Pub. 116 - 7/25

Abstract function of the concentration. Solutions and pure paraffins have shown an identical viscosity coefficient at all temperature intervals of the liquid phase. Six references : 5 USSR and 1 USA (1939-1949).

Tables; graphs; drawings.

GLIR, A.Z.

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 116 - 5/24

Authors

Golik, A. Z.; Ravikovich, S. D.; and Orishchenko, A. V.

Title

* Viscosity and molecular structure of normal alcohols and their solutions

Periodical : Ukr. khim. zhur. 21/2, 167-175, 1955

Abstract

Data are presented on the density, viscosity and critical temperatures of normal alcohols and their solutions in connection with the molecular structure. It is shown that the activation energy of the viscous flow and the pre-exponential multiple factor are the functions of concentration; the activation energy increases and the pre-exponential multiple factor decreases with the increase in concentration of the component which possesses a higher critical temperature. Data regarding the critical temperatures and viscosity of binary and ternary alcohol solutions are included. Eight USSR references (1937-1952). Tables; graphs; drawing.

Institution: Acad. of Sc., Ukr. SSR, The L. V. Pisarzhevskiy inst. of Phys. Chem.

Submitted : January 29, 1954

Golik, AZ.

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 116 - 7/30

Authors

* Golik, A. Z.; Orishchenko, A. V.; Ravikovich, S. D.; Solonko, V. P.; Roshchina, G. P.; and Shimanskiy, Yu. I.

Title

Viscosity, density and critical temperatures of alcohol solutions in monocarboxylic acids

Pariodical : Ukr. khim. zhur. 21/3, 318-326, June 1955

Abstract

: The viscosity, density and critical temperatures of alcohol solutions were investigated in monocarboxylic acids in which the chemical esterification reaction usually takes place. The general laws governing the concentration and thermal dependence of the characteristics mentioned and the laws governing the activation energy of the viscous flow and specific volumes were established. It is shown that in the case of solutions, the components of which react intensively between themselves, and that the concentration and thermal depandences are also subject to other more complicated laws. Mine Russian and USSR references (1877-1955). Graphs.

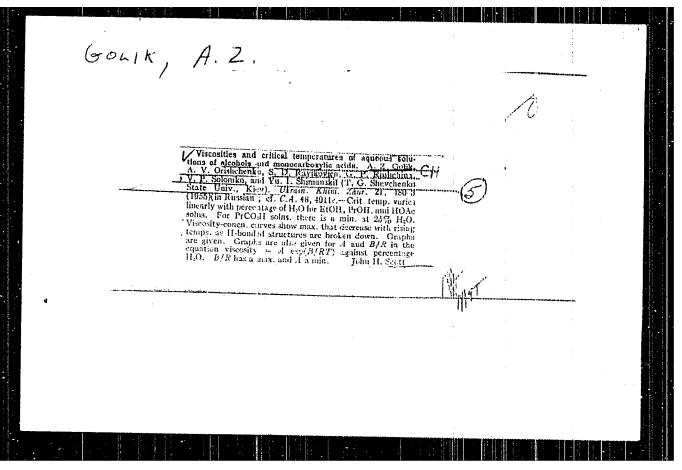
Institution:

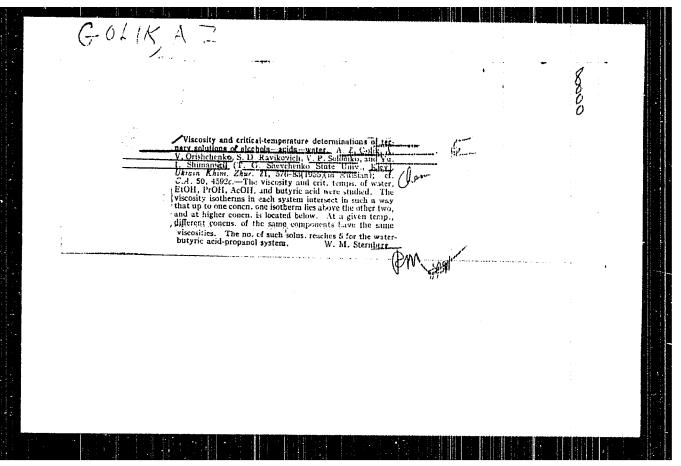
Acad. of Sc., Ukr. SSR., The L. V. Pisarzhevskiy Inst. of Phys. Chen. and

the T. G. Shevchenco State Univ., Kiev

Submitted

: December 16, 1954





"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515720009-2

S. /Physical/Chemistry, Solutions, Theory of Acids and Bases. B-11

Abs Jour : Per Zhur - Khimiya, No 7, 1957, 22478.

: A. A. Golik, N. A. Ryndich. Author

: Not given

: Viceosity and structure of liquid solutions of Zinc, cadmiun, Inst Title

tin, bismuth and lead in mercury.

Orig Pub : Ukr fiz. Zh 1956, I, No 2, 170-182 (ukr., reg. russ).

Abstract : Viscosity (γ_{s}) and density (d) of binary liquid solutions of Zinc (I), Cadmium (II), Tin (III), Bismuth (IV) and Lead (V)

in moreury (VI) are studied. Solutions I and II in VI, the components of which have a similar molecular structure belong to the number of molecular-mixing solutions. The curves of temperature dependence of $\boldsymbol{\eta}$ of the above mentioned solutions lie between curves of the components and grow higher with the increase in concentration of I or II, i.e. with the rise of the critical temperature of the solution. For series of solutions I and II in III, the curve of temperature dependence of h coincided with the whole studied temperature range. Solutions with identical d were also obtained. But \mathbb{N} of these solutions is as different as is d in isoviscous solutions.

Card 1/2

-158-

cous, heary or delds and - M. Louis No. 7, 1957 Activations span $e_{ent_{rat_I}}$

21-5-8/26

Roshchina, G.F. (Roshchyna, H.P.), Golik, A.Z. (Holyk, O.Z.) AUTHORS:

TITLE:

Molecular Scattering of Light in Isoviscous Liquids (Molekulyarnoye rasseyaniye sveta v izovyazkostnykh zhidkostyakh)

PERIODICAL:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 457-

460 (USSR)

12 01,

ABSTRACT:

The authors investigated molecular scattering of light in isoviscous liquid in order to ascertain the connection between the characteristics of scattered light and the structure of the solutions. Isoviscous liquids were first discovered by one of the authors, A.Z. Golik (Ref.1). These liquids have equal critical temperatures and similar curves for the temperature dependence of viscosity. The investigation of the structure of these liquids with the aid of X-ray scattering shows that they posses the same structure. The liquids studied in this research were isoviscous solutions of n-paraffin and of nalcohols. The following results were obtained with these liquids. In the case of n-paraffin solutions, isoviscous with n-heptane, there is a coincidence of the temperature-dependence curves of the intensity of the isotropic part of scattered light. For solutions, isoviscous with ethyl alcohol and propyl alcohol, such an agreement of the intensity curves is

Card 1/2

Molecular Scattering of Light in Isoviscous Liquids

21-5-8/26

not always observed. The intensities of the anisotropic parts of scattered light do not coincide for isoviscous liquids (except for heptane and an isoviscous solution of 50.6% of octane in hexane). On the basis of these investigations the coefficients were computed for the isothermal compressibility of isoviscous liquids. Isoviscous liquids were shown to have the same coefficients of isothermal compressibility. The article contains 2 figures, 2 tables and 4 Slavic references.

ASSOCIATION:

Kiyev State University (Kyivs'kyy darshavnyy universytat)

PRESENTED:

By V.Ye. Lashkarev (Lashkar'ov), Member of the AN Ukrainian SSR

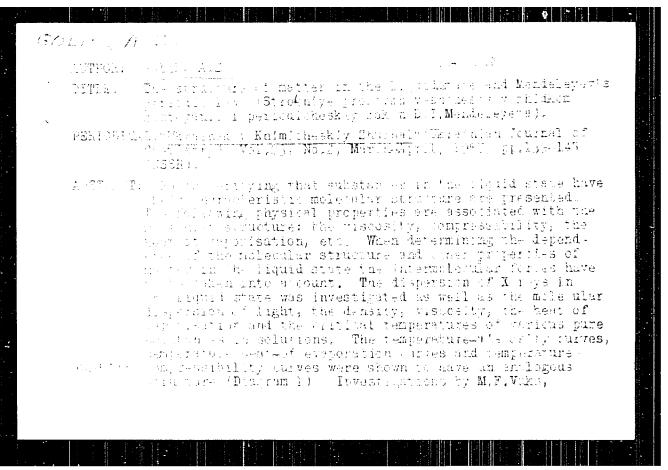
SUBMITTED:

21 December 1956

AVAILABLE:

Library of Congress

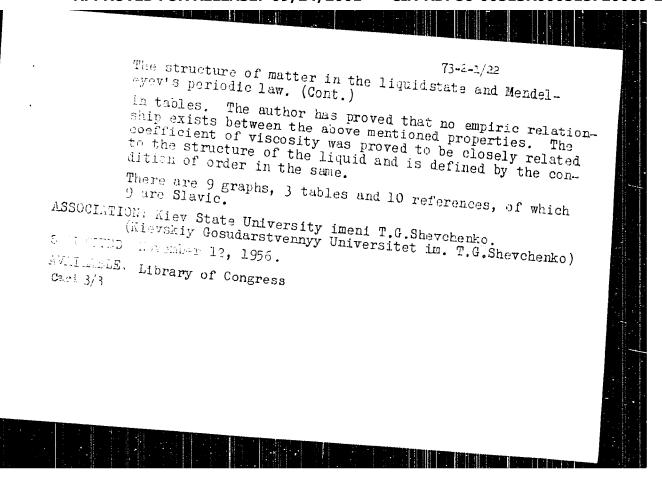
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GCLIK, AZ.

AU THORS:

20-2-35/16

Golik, A. Z., Karlikov, D. N.

PITLE:

On the Relation Between the Coefficient of Viscosity and the Molecular Structure of Liquids (O svyasi keeffitsiyent. vyankosti so strukturoy veslichestvi v nhidhom dostnyarii

PERIODICAL:

Doklady Akademii Mauk BSCR, 1957, Vol. 114, No. 2, sp. 301-362

(USSR)

ABSTRACT:

The relationship between the coefficient of viscosity and other physical properties, and particularly the structure of the substance in its liquid state are of great interest both for the develorment of the theory of the liquid state and of the viscosity, but also for the practical aspects of physical--chemical analysis. However, this set of interrelationsships has not yet been clarified. On the one hand, the knewledge of the structure of liquids required for this jumpise is lacking, and on the other hand the physical properties of the structure of liquids have not been investigated in sufficient detail. The authors of the paper under review made the attempt to overcome the difficulties, which are encountered

Card 1/3

On the Relation Between the Coefficient of Viscosity and two Helestier Utructure of Liquids

in clarifying the relationships between viscosity and structure etc., by an economical selection of the objects of their investigation. For this purpose, also other properties were studied that are in some relationship with the structure. The objects were selected from the point of view of the camillarity of their molecular structures. The following properties were studied within a wide temperature range: density, heat of vaporization, molecular dispersion of light, and oritical temperature. It was demonstrated that the curves of temperature. ture dependence of the viscosity and of the heat of rayourmation are placed the higher, and the curves of compression are placed the lower, the higher the critical temperature of the substance under consideration. It was also proved that the interrelationship between viscosity and other properties connected with the scructure, on the one hand, and the critical temperature, on the other hand, in a consequence of the periodic law of Mondeleyey. The analysis of the curves of atomic distribution of the isoviscous solutions, as well as the analysis of the curves of intensity, show complete corcidence. Therefore it follows that liquids with identical coefficients of viscosity (isoviscous liquids) also have

Card 2/3

Con the Relation Between the Coefficient of Viscosity and the Melecular Structure of Liquids

identical orders of preximity and identical structures. There are 4 figures. I table, and 9 references, 5 of which are Soviet.

ASSOCIATION: State University imani T. G. Shevehenke, Kipey (Kiyevskiy gosudarstvenny universitet im. T. G. Shevehenke; Krivoy Rog Pedagogical Institute (Krivorozhskiy pedinstitut)

PRESENTED: November 12, 1956, by G. V. Kurdyunev, Member of the Andeny SUBMITTED: November 6, 1956

AVAILABLE: Library of Congress

30V/21-58-2-20/28 Solik, A.J., Ravikovich, S.E., Baranovskip, V.Ye. AUTHORS: The Investigation of Evaporation Heats of Solutions of Jomes TITLE: Deuterium Compounds (Issledovaniye teplot ispareniya rastvisev nekotorykh deyterosoyedineniy) Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 2, PERIUDICAL: pp 210-212 (UJSR) The authors investigated the evaporation heat of heavy water ABSTRACT: solutions in ordinary water and of deuterium-butancl in butanol. It is shown that in the first case the concentration dependence of the evaporation heat has a clear-cut maximum at 40°C, and in the second case it degenerates into an J- $\,$ shaped curve. The regularities observed indicate the complicated nature of intermolecular interaction. Hence the authors draw the conclusion that the conception of an "ideal" solution as a standard pattern for comparing different solutions is not applicable. There are 2 graphs, and 7 references, 3 of which are deviet. Card 1/2 2 English, 1 German and 1 American.

The Investigation of Evaporation Heats of Bolations of Home Deutsrium

ASSOCIATIONS: Rivevskiy Communicative and institut (Rivev Medical Institute)

PRESENTED: By Hember of the AS Ukraus, A 1. bradskiy

SUBMITTED: "av 9, 1957

NOTE: Bussian title and Russian names of individuate and institutions appearing in this article have been used in the trans-

GOLIK, A.Z. [Holyk, O.Z.]; RYNDICH, N.A. [Ryndych, N.A.]; BABHREO, S.A.

Viscosity of a Sn - Bi system [with summary in English]. Uk..
fiz. zhur. 3 no.3:365-369 My-Je 158. (MIRA 11:10)

1. Kiyevskiy gosudarstvennyy universitet.
(Systems (Chemistry)) (Viscosity)